

**AMENDMENTS TO THE CLAIMS**

Please amend the claims as set forth below:

Claims 1-27 (Cancelled)

28. (Presently amended) A method comprising:

providing an operating voltage to a processor configured to process wireless communication signals; [and]

sensing a level of power supplied to the processor in order to determine a current mode of operation; and

modifying the operating voltage provided to the processor based on [a] the mode of operation of the processor.

29.-31. Cancelled

32. (Presently amended) A method in accordance with claim [29] 28, wherein the operating voltage is modified by reducing the operating voltage when the current mode of operation is determined to be a sleep mode.

33. (Presently amended) A method in accordance with claim [29] 28, wherein the operating voltage is modified by increasing the operating voltage when the current mode of operation is determined to be an active mode.

34.-35. Cancelled

36. (Presently amended) An apparatus comprising:

a power management controller to provide an operating voltage to a processor configured to process wireless communication signals, wherein the power management controller is configured to sense a level of power supplied to the processor

in order to determine a current mode of operation and to modify the operating voltage based on [a] the mode of operation of the processor.

37.-39. Cancelled

40. (Presently amended) An apparatus in accordance with claim [37] 36, wherein the power management controller is able to modify the operating voltage by reducing the operating voltage when the current mode of operation is a sleep mode.

41. (Presently amended) An apparatus in accordance with claim [37] 36, wherein the power management controller is able to modify the operating voltage by increasing the operating voltage when the current mode of operation is an active mode.

42.-43. Cancelled

44. (Presently amended) An article of manufacture comprising:  
a storage medium; and  
a set of instructions stored in the storage medium, which when executed by a power management controller cause the power management controller to perform operations comprising:  
providing an operating voltage to a processor configured to process wireless communication signals; [and]  
sensing a level of power supplied to the processor in order to determine a mode of operation; and  
modifying the operating voltage provided to the processor based on [a] the mode of operation of the processor.

45.-47. Cancelled

48. (Presently amended) An article of manufacture in accordance with claim [45] 44, wherein the operating voltage is modified by reducing the operating voltage when the current mode of operation is determined to be a sleep mode.

49. (Presently amended) An article of manufacture in accordance with claim [45] 44, wherein the operating voltage is modified by increasing the operating voltage when the current mode of operation is determined to be an active mode.

50.-51. Cancelled

52. (New) A method comprising:  
    providing an operating voltage to a processor configured to process wireless communication signals;  
    receiving a signal indicating an anticipated mode of operation of the processor; and  
    modifying the operating voltage provided to the processor based on the signal.

53. (New) A method in accordance with claim 52, wherein the operating voltage is modified by reducing the operating voltage in response to the signal when the anticipated mode of operation is a sleep mode.

54. (New) A method in accordance with claim 52, wherein the operating voltage is modified by increasing the operating voltage when the anticipated mode of operation is an active mode.

55. (New) An apparatus comprising:  
    a power management controller to provide an operating voltage to a processor configured to process wireless communication signals, wherein the power

management controller is adapted to receive a signal indicating an anticipated mode of operation of the processor and to modify the operating voltage based on the signal.

56. (New) An apparatus in accordance with claim 55, wherein the power management controller is able to modify the operating voltage by reducing the operating voltage in response to the signal when the anticipated mode of operation is a sleep mode.

57. (New) An apparatus in accordance with claim 55, wherein the power management controller is able to modify the operating voltage by increasing the operating voltage in response to the signal when the anticipated mode of operation is an active mode.

58. (New) An article of manufacture comprising:  
a storage medium; and  
a set of instructions stored in the storage medium, which when executed by a power management controller cause the power management controller to perform operations comprising:  
providing an operating voltage to a processor configured to process wireless communication signals;  
receiving a signal indicating an anticipated mode of operation of the processor; and  
modifying the operating voltage provided to the processor based on the signal.

59. (New) An article of manufacture in accordance with claim 58, wherein the operating voltage is modified by reducing the operating voltage in response to the signal when the anticipated mode of operation is a sleep mode.

60. (New) An article of manufacture in accordance with claim 58, wherein the operating voltage is modified by increasing the operating voltage when the anticipated mode of operation is an active mode.